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(51) International Patent Classification ⁶ : C12N 15/12, C07K 14/47, C12N 15/11, C12Q 1/68, C07K 16/18, G01N 33/68, A61K 38/17		A2	(11) International Publication Number: WO 00/00610 (43) International Publication Date: 6 January 2000 (06.01.00)																												
(21) International Application Number: PCT/US99/14484 (22) International Filing Date: 25 June 1999 (25.06.99) (30) Priority Data: <table><tr><td>60/090,762</td><td>26 June 1998 (26.06.98)</td><td>US</td></tr><tr><td>60/094,983</td><td>31 July 1998 (31.07.98)</td><td>US</td></tr><tr><td>60/102,686</td><td>1 October 1998 (01.10.98)</td><td>US</td></tr><tr><td>60/112,129</td><td>11 December 1998 (11.12.98)</td><td>US</td></tr></table> (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Applications <table><tr><td>US</td><td>60/090,762 (CIP)</td></tr><tr><td>Filed on</td><td>26 June 1998 (26.06.98)</td></tr><tr><td>US</td><td>60/094,983 (CIP)</td></tr><tr><td>Filed on</td><td>31 July 1998 (31.07.98)</td></tr><tr><td>US</td><td>60/102,686 (CIP)</td></tr><tr><td>Filed on</td><td>1 October 1998 (01.10.98)</td></tr><tr><td>US</td><td>60/112,129 (CIP)</td></tr><tr><td>Filed on</td><td>11 December 1998 (11.12.98)</td></tr></table> (71) Applicant (for all designated States except US): INCYTE PHARMACEUTICALS, INC. [US/US]; 3174 Porter Drive, Palo Alto, CA 94304 (US).		60/090,762	26 June 1998 (26.06.98)	US	60/094,983	31 July 1998 (31.07.98)	US	60/102,686	1 October 1998 (01.10.98)	US	60/112,129	11 December 1998 (11.12.98)	US	US	60/090,762 (CIP)	Filed on	26 June 1998 (26.06.98)	US	60/094,983 (CIP)	Filed on	31 July 1998 (31.07.98)	US	60/102,686 (CIP)	Filed on	1 October 1998 (01.10.98)	US	60/112,129 (CIP)	Filed on	11 December 1998 (11.12.98)	(72) Inventors; and (75) Inventors/Applicants (for US only): LAL, Preeti [IN/US]; 2382 Lass Drive, Santa Clara, CA 95054 (US). TANG, Y., Tom [CN/US]; 4230 Ranwick Court, San Jose, CA 95118 (US). GORGONE, Gina, A. [US/US]; 1253 Pinocrest Drive, Boulder Creek, CA 95006 (US). CORLEY, Neil, C. [US/US]; 1240 Dale Avenue #30, Mountain View, CA 94040 (US). GUEGLER, Karl, J. [CH/US]; 1048 Oakland Avenue, Menlo Park, CA 94025 (US). BAUGHN, Mariah, R. [US/US]; 14244 Santiago Road, San Leandro, CA 94577 (US). AKERBLOM, Ingrid, E. [US/US]; 1234 Johnson Street, Redwood City, CA 94061 (US). AU-YOUNG, Janice [US/US]; 1419 Kains Avenue, Berkeley, CA 94702 (US). YUE, Henry [US/US]; 826 Lois Avenue, Sunnyvale, CA 94087 (US). PATTERSON, Chandra [US/US]; 490 Sherwood Way #1, Menlo Park, CA 94025 (US). REDDY, Roopa [IN/US]; 1233 W. McKinley Drive, Sunnyvale, CA 94086 (US). HILLMAN, Jennifer, L. [US/US]; 230 Monroe Drive #12, Mountain View, CA 94040 (US). BANDMAN, Olga [US/US]; 366 Anna Avenue, Mountain View, CA 94043 (US). (74) Agents: BILLINGS, Lucy, J. et al.; Incyte Pharmaceuticals, Inc., 3174 Porter Drive, Palo Alto, CA 94304 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>	
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(54) Title: HUMAN SIGNAL PEPTIDE-CONTAINING PROTEINS																															
(57) Abstract The invention provides human signal peptide-containing proteins (HSPP) and polynucleotides which identify and encode HSPP. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with expression of HSPP.																															

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TABLE 1 (cont.)

Protein SEQ ID NO:	Nucleotide SEQ ID NO:	Clone ID	Library	Fragments
59	193	2817268	BRSTNOT14	2817268HI (BRSTNOT14), 3591308HI (293TF5T01), 419522R1 (BRSTNOT01), 2073028F6 (ISLTNOT01), 1308781F6 (COLNFET02)
60	194	2923165	SININOT04	2923165HI (SININOT04), 2011630HI (TESTNOT03), 1457250F1 (COLNFET02), 754668R1 (BRAITUT02), 1406510F6 (LA TRTUT02)
61	195	2949822	KIDNFET01	2949822HI (KIDNFET01), SBDA07078F3
62	196	2992192	KIDNFET02	2992192HI (KIDNFET02), 2534324H2 (BRAINOT18), 2815255T6 (OVARNOT10), 1551107T6 (PROSNOT06), 1551107R6 (PROSNOT06)
63	197	2992458	KIDNFET02	2992458HI (KIDNFET02), 2618951HI (GBLANOT01), 1479252F1 (CORPNOT02), 1879054HI (LEUKNOT03), 1879054F6 (LEUKNOT03), 2215240HI (SINTFET03), 1535968T1 (SPLNNOT04)
64	198	3044710	HEAANOT01	3044710HI (HEAANOT01), 3741773HI (MENTNOT01), 859906X42C1 (BRAITUT03), 1534347F1 (SPLNNOT04), 1421122F1 (KIDNNOT09), 1303865F1 (PLACNOT02), 1704452F6 (DUODNOT02), 1251642F1 (LUNGFET03), 1781694R6 (PGANNON02)
65	199	3120415	LUNGTUT13	3120415HI (LUNGTUT13), 1360123T1 (LUNGNOT12), 1375015HI (LUNGNOT10)
66	200	126758	LUNGNOT01	126758HI (LUNGNOT01), 126758X11 (LUNGNOT01), 811864T1 (LUNGNOT04)
67	201	674760	CRBLNOT01	674760HI (CRBLNOT01), 3253976HI (OVARTUN01), SAUA03387F1
68	202	1229438	BRAITUT01	1229438HI (BRAITUT01), 1230616HI (BRAITUT01), 1461187R1 (PANCNOT04), 2493039HI (ADRETUT05), 2891628HI (LUNGFET04)
69	203	1236935	LUNGFET03	1236935HI (LUNGFET03), SBAA00983F1, SBAA02057F1, SBAA00170F1
70	204	1359283	LUNGNOT12	1359283HI (LUNGNOT12), SBAA01213F1, SBAA03934F1
71	205	1450703	PENITUT01	551298F1 (BEPINOT01), 551298R1 (BEPINOT01), 1450703HI (PENITUT01), 2748715HI (LUNGTUT11)

TABLE 3 (cont.)

Nucleotide SEQ ID NO:	Tissue Expression (Fraction of Total)	Disease/Condition-Specific Expression (Total of Fraction)	Vector
189	Cardiovascular (0.500) Reproductive (0.500)	Cancer (1.000)	pINCY
190	Reproductive (0.318) Nervous (0.227) Hematopoietic/Immune (0.136)	Cancer (0.500) Fetal (0.227) Inflammation (0.227)	pINCY
191	Reproductive (0.253) Cardiovascular (0.158) Gastrointestinal (0.147)	Cancer (0.463) Inflammation (0.232) Fetal (0.200)	pINCY
192	Reproductive (0.333) Gastrointestinal (0.286) Cardiovascular (0.095)	Cancer (0.571) Inflammation (0.333) Fetal (0.095)	pINCY
193	Reproductive (0.304) Cardiovascular (0.217) Gastrointestinal (0.130)	Cancer (0.435) Inflammation (0.391) Fetal (0.174)	pINCY
194	Reproductive (0.312) Nervous (0.188) Cardiovascular (0.125)	Cancer (0.438) Inflammation (0.250) Fetal (0.188)	pINCY
195	Developmental (1.000)	Fetal (1.000)	pINCY
196	Reproductive (0.233) Cardiovascular (0.209) Nervous (0.140)	Cancer (0.605) Fetal (0.186) Inflammation (0.116)	pINCY
197	Reproductive (0.182) Gastrointestinal (0.136) Hematopoietic/Immune (0.136)	Cancer (0.477) Inflammation (0.341) Fetal (0.182)	pINCY
198	Gastrointestinal (0.205) Reproductive (0.205) Cardiovascular (0.114)	Inflammation (0.341) Cancer (0.250) Fetal (0.227)	pINCY
199	Cardiovascular (0.520) Reproductive (0.280) Developmental (0.160)	Cancer (0.720) Fetal (0.200) Inflammation (0.080)	pINCY
200	Lung (0.958) Developmental (0.25) Musculoskeletal (0.042)	Cancer (0.583) Fetal or Proliferating (0.292) Inflammation (0.167)	pBLUESCRIPT
201	Reproductive (0.571) Musculoskeletal (0.143) Nervous (0.143) Urologic (0.143)	Cancer (0.429) Inflammation (0.571)	pSPORT1

TABLE 4 (cont.)

Polynucleotide SEQ ID NO:	Clone ID	Library	Library Description
193	2817268	BRSTNOT14	The library was constructed using RNA isolated from breast tissue removed from a 62-year-old Caucasian female during a unilateral extended simple mastectomy. Pathology for the associated tumor tissue indicated an invasive grade 3 (of 4), nuclear grade 3 (of 3) adenocarcinoma, ductal type. Ductal carcinoma in situ, comedo type, comprised 60% of the tumor mass. Metastatic adenocarcinoma was identified in one (of 14) axillary lymph nodes with no perinodal extension. The tumor cells were strongly positive for estrogen receptors and weakly positive for progesterone receptors. Patient history included a benign colon neoplasm, hyperlipidemia, and cardiac dysrhythmia. Family history included atherosclerotic coronary artery disease, myocardial infarction, colon cancer, ovarian cancer, lung cancer, and cerebrovascular disease.
194	2923165	SININOT04	The library was constructed using RNA isolated from diseased ileum tissue obtained from a 26-year-old Caucasian male during a partial colectomy, permanent colostomy, and an incidental appendectomy. Pathology indicated moderately to severely active Crohn's disease. Family history included enteritis of the small intestine.
195	2949822	KIDNFET01	The library was constructed using RNA isolated from kidney tissue removed from a Caucasian female fetus, who died at 17 weeks' gestation from anencephalus.
196	2992192	KIDNFET02	The library was constructed using RNA isolated from kidney tissue removed from a Caucasian male fetus, who was stillborn with a hypoplastic left heart and died at 23 weeks' gestation.
197	2992458	KIDNFET02	The library was constructed using RNA isolated from kidney tissue removed from a Caucasian male fetus, who was stillborn with a hypoplastic left heart and died at 23 weeks' gestation.
198	3044710	HEAANOT01	The library was constructed using RNA isolated from right coronary and right circumflex coronary artery tissue removed from the explanted heart of a 46-year-old Caucasian male during a heart transplantation. Patient history included myocardial infarction from total occlusion of the left anterior descending coronary artery, atherosclerotic coronary artery disease, hyperlipidemia, myocardial ischemia, dilated cardiomyopathy, and left ventricular dysfunction. Previous surgeries included cardiac catheterization. Family history included atherosclerotic coronary artery disease.

TABLE 6 (cont.)

Nucleotide SEQ ID NO:	Clone ID	Fragment of SEQ ID NO	Starting Nucleotide of Fragment	Ending Nucleotide of Fragment
193	2817268	2817268H1	42	282
		3591308H1	13	264
		419522R1	179	808
		2073028F6	446	924
		1308781F6	869	1112
194	2923165	2923165H1	8	295
		2011630H1	18	238
		1457250F1	268	856
		754668R1	327	878
		1406510F6	558	901
195	2949822	2949822H1	1	280
		SBDA07078F3	1	606
196	2992192	2992192H1	25	321
		2534324H2	1	240
		2815255T6	690	219
		1551107T6	893	471
		1551107R6	471	690
197	2992458	2992458H1	48	362
		2618951H1	1	247
		1479252F1	163	610
		1879054H1	563	840
		1879054F6	563	1096
		2215240H1	951	1202
		1535968T1	1729	1173